Proteins

Inhibitors

Product Data Sheet

QKRPSQRSKYL (TFA salt)



Myelin Basic Protein TFA

Cat. No.: HY-P1821A

Molecular Formula: $C_{62}H_{104}F_3N_{21}O_{19}$

Molecular Weight: 1504.61

QKRPSQRSKYL Sequence Shortening:

PKC Target:

Pathway: Epigenetics; TGF-beta/Smad

Storage: Sealed storage, away from moisture

> Powder -80°C 2 years

> > -20°C 1 year

* In solvent: -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

SOLVENT & SOLUBILITY

In Vitro

H₂O: 100 mg/mL (66.46 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	0.6646 mL	3.3231 mL	6.6462 mL
	5 mM	0.1329 mL	0.6646 mL	1.3292 mL
	10 mM	0.0665 mL	0.3323 mL	0.6646 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: PBS

Solubility: 100 mg/mL (66.46 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

Myelin Basic Protein (MHP4-14) TFA, a synthetic peptide comprising residues 4-14 of myelin basic protein, is a very selective $PKC\ substrate\ (K_m=7\ \mu M).\ Myelin\ Basic\ Protein\ TFA\ is\ not\ phosphorylated\ by\ cyclic\ AMP-dependent\ protein\ kinase,\ case in\ AMP-dependent\ protein\ kinase,\ parked by\ cyclic\ AMP-dependent\ protein\ kinase,\ parked\ park$ kinases I and II, Ca²⁺/calmodulin-dependent protein kinase II, or phosphorylase kinase, and can be routinely used for the assay of protein kinase C with low background in the crude tissue extracts^{[1][2]}.

In Vitro

Once MBP4-14 is phosphorylated, it is not dephosphorylated by okadaic acid-sensitive phosphatases (protein phosphatases 1, 2A and 3) or other protein phosphatases such as calcineurin and/or PP 2C present in hippocampal homogenates. Therefore, MBP4-14 can be used for PKC assay in crude extracts of neural tissue [1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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CUSTOMER VALIDATION

• Autophagy. 2020 Oct;16(10):1823-1837.

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REFERENCES

- [1]. Farrar YJ, et al. A phosphatase resistant substrate for the assay of protein kinase C in crude tissue extracts. Biochem Biophys Res Commun. 1991;180(2):694-701.
- [2]. Yasuda I, et al. A synthetic peptide substrate for selective assay of protein kinase C. Biochem Biophys Res Commun. 1990;166(3):1220-1227.

Caution: Product has not been fully validated for medical applications. For research use only.

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